


DEAD LOAD DEFLECTION DIAGRAM

NOTES:
 1. ENCIRCLED NUMBERS INDICATE ANTICIPATED DEFLECTION DUE TO CONCRETE ONLY.
 2. DEFLECTIONS ARE IN INCHES.

MOMENT - foot-kips			MOMENT AND REACTION TABLE								REACTION - kips			
LOAD NAME	LOAD - k/ft		POSITIVE MOMENT				NEGATIVE MOMENT		REACTION					
	INTERIOR	EXTERIOR	0.4 FT. END SPAN	0.5 FT. CENTER SPAN	PIER	PIER	ABUTMENT	ABUTMENT	PIER	PIER	ABUTMENT	ABUTMENT	PIER	
D.L. NO. 1	0.74*	0.72*	202	198	250	244	446	436	19	19	69	67		
D.L. NO. 2	0.29	0.29	74	72	104	98	128	134	7	7	22	22		
LIVE LOAD + IMPACT HS20-44 LANE TRUCK	MOMENT	MOMENT	597	557	670	618	-	-	58	48	-	-		
	1.35	1.27												
	REACTION	REACTION	-	-	-	-	389	381	-	-	65	61		
	1.65	1.05												
TOTAL	-	-	-	-	-	-	963	951	84	74	156	150		

* LOAD VALUES DO NOT INCLUDE GIRDER WEIGHT.
 MOMENT AND REACTION VALUES DO INCLUDE GIRDER WEIGHT.
 MOMENTS AND REACTIONS SHOWN ARE UNFACTORED.

LATEST REVISION DATE APPROVED BY BRIDGE ENGINEER <i>Monica E. McQuinn</i>	 STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES FEBRUARY, 2004	
	BEAM DEFLECTIONS 200'-0 BRIDGE	RS40-BD3-04